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CORRECTION.—Page 52, Prob. 15, for "$\frac{1}{3}+\frac{5}{2\pi}$" read $\frac{1}{3}+\frac{5}{2\pi^2}$.

The following paragraph, which should terminate immediately before the 9th line from the bottom of page 59, has been omitted, by oversight, from Mr· Hill's article:

"In the last place, the value of θ and θ may be found on the branch to the right which is supposed to be extended indefinitely. Here θ may increase without limit, and the system is, so far as this showing goes, unstable."

EDITORIAL NOTES.

We are pleased to acknowledge the receipt of a number of valuable articles for publication; among which we may mention, a paper by Prof. D. Trowbridge on the Potential Function; two papers by Prof. Geo. R. Perkins on the Solution of Indeterminate Problems; two papers by Prof. A. Hall, one on a Formula in Dynamics, and one on the Besselian Function; a paper by Irving P. Church discussing an Exponential Curve; two papers by Prof. E. W. Hyde, one on the Section of a Circular Torus, and one on the Moment of Inertia of a Torus About its Axis; a paper by Edgar Frisby, Esq., on the Summation of Series; and various other interesting papers, all of which will be published in due time. We regret that from our limited space we are obliged to defer the publicatin of articles which we would be pleased to present to our readers immediately on their reception. As soon as our subscription is sufficient to pay the expense we will increase the size of our Journal permanently to 20 pages.

We acknowledge the receipt of the following pamphlets:

Annual Register of the U. S. Naval Academy, Annapolis, Md., for the Academic year 1872–73.

The President's Report and the *Ninth Annual Catalogue* of the Mass. Institute of Technology.

The Fifteenth Annual Catalogue of McGee College, College Mound, Mo.

A New Method of Obtaining the Differentials of Functions. By PROF. J. M. RICE, of the U. S. Naval Academy, and PROF. W. W. JOHNSON, of St. John's College, Annapolis, Md.

The Computation of the Transit of Venus for the years 1874 and 1882, and of *Mercury* for the year 1878. By J MORRISON, M. D., M. A., Toronto, Canada.

Mathematical Key. By JOSEPH B. MOTT, Neosho, Mo.

A paper on *The Flow of Water in Pipes and Vessels.* By H. T. EDDY, C. E. Printed in Van Nostrand's Engineering.

Notes on the First Book of Benson's Geometry.

We have also received from T. J. LOWRY, ESQ., of the U. S. Coast Survey, a copy of the *Mining and Scientific Press*, of San Francisco, Cal., containing a description, by PROF. GEO. DAVIDSON, of the U. S. Coast Survey and President of the California Academy of Science, at a meeting of the Society, of improvements made in the *sextant* by T. J. LOWRY, of the U. S. Coast Survey. The description is accompanied by cuts of the instrument representing the improvement, which we would be pleased to present to our readers did our space permit.

We would call the attention of such of our readers as are interested in more elementary problems than are generally presented in the ANALYST, to the *School Day Magazine*, published by J. W. DAUGHADAY & Co., Philadelphia, Pa., in which will be found a *Mathematical Department*, which is ably conducted by ARTEMAS MARTIN, ESQ., of Erie, Pa., to whom we are indebted for various contributions for the ANALYST, and to whom we take pleasure in tendering our thanks for his successful efforts in extending the circulation of the ANALYST.